CLAIMS

- 1 1. A method of treating a porous plastic object comprising:
- 2 (a) removing surface porosity of said object;
- 3 (b) smoothening said surface with a curable polymeric hardener; and
- 4 (c) curing said hardener.
- 5 2. A method according to claim 1 further comprising:
- 6 (d) sanding said surface to remove roughness.
- 7 3. A method according to claim 2 further comprising:
- 8 (e) applying a layer of lacquer to obtain a glossy appearance.
- 9 4. A method according to claim 3 further comprising:
- 10 (f) Colour printing on said surface by cubic printing, tampon printing
- or letter stanza transfer.
- 12 5. A method according to claim 3 further comprising:
- (f) Texturing said surface by spray painting.
- 14 6. A method according to claim 1 wherein said object is produced by
- selective laser sintering of nylon powder.
- 16 7. A method according to claim 1 wherein step (a) is performed by
- soaking said object in a first curable polymer having sufficiently low
- viscosity to penetrate the pores of said object; and
- 19 curing said polymer.

41

- 8. A method according to claim 1 wherein said curable polymer in step 20 21 (b) is a UV-curable lacquer. A method of treating a porous plastic rapid prototype having a rough 9. 22 surface with miniature steps, said method comprising: 23 infiltrating the pores of said plastic object with a curable a) 24 polymer; 25 curing said polymer; 26 b) applying an external coating of a curable polymeric hardener, 27 c) said hardener having sufficient viscosity to remain on said 28 surface and to fill up said miniature steps to form a smooth 29 surface; and 30 d) curing said hardener. 31 A method according to claim 9 further comprising: 10. 32 e) sanding said surface remove roughness. 33 A method according to claim 10 further comprising: 34 11. f) applying a layer of lacquer on said surface to obtain a glossy 35 36 appearance. 37 12. A method according to claim 11 further comprising: f) performing Tampon printing, letter stanza transfer or cubic printing 38 on said surface. 39 A method according to claim 9 wherein said prototype is made from 13. 40
 - 42 14. A plastic rapid prototype containing pores and miniature steps on 43 the surface, said pores infiltrated and sealed with a polymeric resin,

nylon using selective laser sintering.

- said miniature steps smoothened by a polymeric hardener whereby further post-processing may be performed on said surface.
- 46 15. A rapid prototype according to claim 14 further comprising a coating
 47 of high glossy lacquer over said hardener coating.
- 48 16. A rapid prototype according to claim 14 further comprising a coating of paint over said coating of hardener.
- 50 17. A rapid prototype according to claim 15 further comprising a coating of painting over said coating of high glossy lacquer.
- 52 18. A rapid prototype according to claim 16 wherein said paint coating is textured.
- 54 19. A method of treating the surface of a plastic object comprising:
- smoothening said surface with a curable polymeric hardener; and
- 57 b) curing said hardener
- 58 20. A method according to claim 19 further comprising:
- c) sanding said surface to remove roughness.
- 60 21. A method according to claim 20 further comprising:
- d) applying a layer of lacquer to obtain a glossy appearance.
- A plastic rapid prototype containing miniature steps on the surface, said steps smoothened by a polymeric hardener whereby further post-processing may be performed on said surface.
- 65 23. A rapid prototype according to claim 22 further comprising a coating of high glossy lacquer over said hardener coating.

67	24.	A rapid prototype according to claim 22 further comprising a coating
86		of high glossy lacquer over said hardener coating.

- A rapid prototype according to claim 22 further comprising a coating of paint over said coating of hardener.
- 71 26. A rapid prototype according to claim 25 wherein said coating of paint is textured.

73